

CLAIMS:

1. An interlocking system for preventing simultaneous opening of drawers of a cabinet, comprising:

activation members respectively affixable to back sides of the drawers;

guide supports respectively affixable in the cabinet behind the drawers, in respective registration with the activation members;

10 an elongated track member affixable in the cabinet on a side of the guide supports;

a series of mobile blocks slideably guided by the track member, the track member limiting the blocks to a partial displacement to produce a space between any two of the blocks;

carriage members respectively slideably mounted on the guide supports, the carriage members being movable transversely to the track member, the carriage members respectively having bolt elements projecting towards the
20 track member and drivable one at a time in the space produced by the partial displacement of the blocks by sliding of the carriage members towards the track member; and

coupling means respectively extending between the activation members and the carriage members for sliding one of the carriage members towards the track member using pulling motion of a corresponding one of the activation members during opening of a corresponding one of the drawers, provided that the space is vacant for receiving the bolt element of said one of the carriage members, and sliding said
30 one of the carriage members away from the track member using pushing motion of said one of the activation members during closing of said corresponding one of the drawers.

2. The interlocking system according to claim 1, wherein the coupling means comprise guiding groove and pin arrangements distributed between the activation members and the carriage members.

3. The interlocking system according to claim 2, wherein each guiding groove and pin arrangement comprises a pin means extending on a front side of a corresponding one of the carriage members and a slanted groove means extending on a rear side of a corresponding one of the activation members, the pin means being engageable in the groove means and being guided therein upon pulling and pushing motions of the corresponding one of the activation members.

4. The interlocking system according to claim 3, wherein the pin means comprises a pair of upwardly and downwardly projecting facing pins, and the slanted groove means comprises a pair of opposite grooves in which the downwardly and upwardly projecting pins are respectively engageable.

5. The interlocking system according to claim 3, wherein the slanted groove means have a flaring opening on a side of the carriage members for facilitating engagement of the pin means.

6. The interlocking system according to claim 3, wherein the guide supports have spring means for returning the carriage members, after a first coupling of the activation members with the carriage members, from inactive positions wherein the pin means are misaligned and guided outside the groove means to active positions ready for insertion of the bolt elements in the space and wherein the pin means engage in the groove means.

7. The interlocking system according to claim 1, wherein the guide supports have upper and lower back surfaces and the carriage members have upper and lower projecting flanges respectively slideably engaging the upper and lower back surfaces of the guide supports.

10 8. The interlocking system according to claim 7, wherein one of the back surfaces of the guide supports and a corresponding one of the flanges of the carriage members have respectively a rugged portion and a bump frictionally engaging the rugged portion.

9. The interlocking system according to claim 1, further comprising a mounting structure having opposite first and second mounting rails affixable in the cabinet behind the drawers and between which the guide supports are mountable, the second mounting rail providing a support structure for the track member.

20

10. The interlocking system according to claim 9, wherein the guide supports have first and second opposite ends respectively attachable to the mounting rails at adjustable heights along the mounting rails.

11. The interlocking system according to claim 10, wherein the second end of the guide supports has hooking means for hooking attachment through perforations in the second mounting rail, and the first end of the guide supports
30 has a projecting bracket screwable to the first mounting rail.

12. The interlocking system according to claim 9, wherein the mounting structure has a back wall extending between the first and second mounting rails.

13. The interlocking system according to claim 9, wherein the mounting rails have lower ends provided with downwardly projecting tabs for engagement in slots in a lower supporting structure of the cabinet, and upper ends shaped for engagement in holes in an upper supporting structure of
10 the cabinet.

14. The interlocking system according to claim 1, wherein the elongated track member has a longitudinal side channel and the mobile blocks comprise rods slideably fitting in the side channel.

15. The interlocking system according to claim 14, wherein the rods have opposite tapered ends facilitating insertion of the bolt elements between the rods.
20

16. The interlocking system according to claim 1, wherein the bolt elements have bevelled edges facilitating insertion of the bolt elements between the mobile blocks.

17. The interlocking system according to claim 16, wherein the bolt elements have upper side recesses adjoining the bevelled edges, providing stop surfaces impeding disengagement of the bolt elements when inserted between the mobile blocks.
30

18. The interlocking system according to claim 1, wherein the activation members have clipping means for

clipping the activation members to the back sides of the drawers.